

# Wi-Fi 6 Home

Gigabit WAN Router (CX20),  
AX1800, EasyMesh



Heimgard CX20 Wi-Fi 6 Home router provides the end-user with next generation Wi-Fi technology on 2.4Ghz and 5Ghz band. Three units create a high quality mesh system with a Wi-Fi coverage of 750m2. The CX20 router is powered by HeimgardOS, the most advanced operating system for mesh and gateways, based on openWRT. Completely flexible - Completely secure

## Wireless Standard

- 802.11ax 5 GHz, 1200 mpbs
- 802.11ax 2.4 GHz, 600 mpbs
- EasyMesh

## Router/Bridge Features

- PPPoE (RFC 2516)
- PPPoA (RFC 2364)
- MAC encapsulation routing/IPoE
- Network Address Translation (NAT)
- NAT virtual server (port forwarding)
- DHCP client/server/relay with DHCP option 43/60/61/125
- DNS proxy/dynamic DNS
- Static/Policy route
- IGMP v1, v2, v3
- IPv4/IPv6

## Wireless

- Wireless Protected Setup (WPS)
- WPA2/WPA2/WPA3 with TKIP & AES
- Multi SSID: up to 4
- MU-MIMO support
- 2x2 Internal antennas on 2.4Ghz and
- 2x2 Internal antennas on 5 Ghz

## VLAN/QoS

- 802.1Q VLAN tagging/un-tagging
- Support flexible traffic classification

## Firewall & Security

- Generic packet filter
- DoS attack prevention
- Parental control
- SPI Firewall

## Key Features

- ▶ Wireless standards:
  - IEEE 802.11b/g/n/ax 2.4 GHz
  - IEEE 802.11a/n/ac/ax 5 GHz
- ▶ Signal rate:
  - 2.4 GHz: Up to 600 Mbps
  - 5 GHz: Up to 1200 Mbps
- ▶ 1 x 10/100/1000 RJ45 WAN/LAN Port
- ▶ 1 x 10/100/1000 RJ45 LAN Port
- ▶ 2 x 2 antennas on 2.4Ghz 802.11ax
- ▶ 2 x 2 antennas on 5Ghz 802.11ax
- ▶ 256Mb NAND and 256 RAM
- ▶ 11x11x11cm housing

Order no.: 132218

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## Management

- Web/HTTPS: Multi level log-in via SSH
- Firmware upgrade via web/TFTP/FTP/TR-069/Cloud OTA
- Text based configuration
- Configuration backup/update/ restore default via Web
- Support TR069 and USP and MQTT
- TR-111 and TR-181
- SNMP v1, v2, v3

## HeimgardOS Features

- Continuously updated
- End-to-end encryption (between app, CPE, and cloud)
- OpenWRT based
- Surf-from-home (personal VPN)

## Enable value added services

- The platform is prepared for enabling various value added services such as malware protection, VPN, and advanced parental control.

## Package Content

- Power adapter
- Ethernet cable
- Quick start guide
- Safety warning card

## Button

- One Power on/off button
- One reset button
- One WPS on/off button
- One WLAN on/off button

## Power Supply

- 12 V DC/ 1.5 A

## Environmental Specifications

### Temperature:

- Operating: 0°C to 40°C, Storage: -30°C to 70°C

### Humidity:

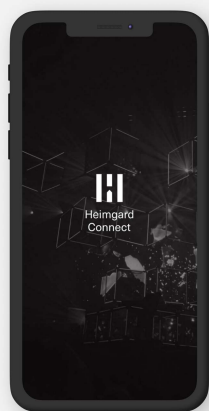
- Operating humidity: 10 to 90% RH (Non-condensing)
- Storage humidity: 10 to 95% RH (Non-condensing)

## Physical Specifications

- Dimensions : 11 x 11 x 11 cm

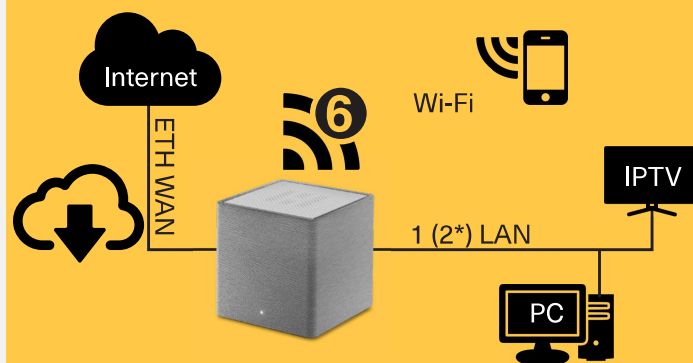
## Certification

- Safety: EMC: CE
- Wi-Fi Alliance



### Heimgard Connect App

Set up and manage your home network with an easy-to-use app. Wi-Fi setup, client information, multiple locations support, plug-and-play pairing, parental control, Surf from Home



+ Various value added services

\* 2 LAN ports when connected wireless and used as mesh node.